

CLAIMS

- 1 1. A method of forming a virtual network, comprising:
- 2
- 3 providing each of a plurality of mobile objects with a transceiver;
- 4
- 5 transmitting a cellular/radio signals from a source;
- 6
- 7 moving at least a first of the mobile objects into a location where the transceiver of
- 8 the first mobile object does not receive the signal directly from the source;
- 9
- 10 locating a second of the mobile objects in a position where the transceiver of the
- 11 second mobile object receives the signal directly from the source; and
- 12
- 13 using the transceiver on the second mobile object to receive the signal directly
- 14 from the source and to transmit the signal to the transceiver of the first mobile
- 15 object.
- 1
- 2 2. A method according to Claim 1, further comprising the step of providing each
- 3 of the mobile objects with a sensor to determine when the transceivers of others of
- 4 the mobile objects are not able to receive the cellular/radio signals directly from
- 5 the source; and wherein when the sensor of one of the mobile objects determines
- 6 that the transceiver of another of the mobile objects is not able to receive the
- 7 signals directly from the source, the sensor of said one of the mobile objects
- 8 activates the transceiver of said one of the mobile objects to transmit the signal to
- the transceiver of the other of the mobile object.
- 1
- 2 3. A method according to Claim 1, wherein the mobile objects are cars or people.

1 4. A method according to Claim 1, further including the steps of verifying whether the
2 signal is an emergency signal, and giving a preferred treatment for the emergency
3 signal.

1 5. A method according to Claim 4, wherein the step of giving a preferred treatment for
2 the emergency signal includes the steps of assigning a most available frequency band
3 for the emergency signal, and stopping transmitting other signal through this band.

1 6. A method according to Claim 1, wherein the location where the transceiver on
2 the first mobile object does not have access to the signal directly from the source is
3 one or more of the following: in a tunnel, under a bridge, or in a subway.

1 7. A method according to Claim 1, further comprising the step of determining whether
2 the signal has reached the final user before sending the signal further.

1 8. A virtual network for transmitting cellular/radio signal, comprising:
2
3 a plurality of transceivers;
4
5 a plurality of mobile objects; each of the mobile objects having one of the transceivers;
6
7 a source for transmitting cellular/radio signals;
8
9 wherein a first of the mobile objects is in a location where the transceiver of the first
10 mobile object does not have access to the signals directly from the source;
11
12 wherein a second of the mobile objects is in a location where the transceiver of the
13 second mobile object receives the signals directly from the source; and the transceiver
14 of the second mobile object transmits the signals to the transceiver of the first mobile
15 object.

1 9. A network according to Claim 8, further comprising a plurality of sensors, and
2 wherein each of the mobile objects is provided with one of the sensors to determine
3 when the transceivers of others of the mobile objects are not able to receive the
4 cellular/radio signals directly from the source; and wherein when the sensor of one of
5 the mobile objects determines that the transceiver of another of the mobile objects is
6 not able to receive the signals directly from the source, the sensor of said one of the
7 mobile objects activates the transceiver of said one of the mobile objects to transmit
8 the signal to the transceiver of the other of the mobile object.

1 10. A network according to Claim 8, wherein the mobile objects are cars or people.

1 11. A network according to Claim 8, wherein the first mobile object is in one of
2 the following locations: in a tunnel, under a bridge, or in a subway.

1 12. A network according to Claim 8, wherein a chip can be embedded in EZ-pass for
2 transmitting cellular signals between cars.

1 13. A network according to Claim 8, wherein a chip can be added to cellular
2 telephones to transmit signals between cellular telephones.

1 14. A network according to Claim 8, wherein a local network of transmission devices
2 is used to count the density of cars by defining the short distances.

1 15. A network according to Claim 14, wherein the transmission devices can be either
2 chips in cellular telephones or in EZ passes.

1 16. A program storage device readable by machine, tangibly embodying a program of
2 instructions executable by the machine to perform method steps for using a virtual
3 network, wherein the virtual network comprises a plurality of transceivers; a plurality
4 of mobile objects, each of the mobile objects having one of the transceivers; and a
5 source for transmitting cellular/radio signals; wherein a first of the mobile objects is in

6 a location where the transceiver of the first mobile object does not have access to the
7 signals directly from the source; and wherein a second of the mobile objects is in a
8 location where the transceiver of the second mobile object receives the signals directly
9 from the source; said method steps comprising:

10

11 transmitting a cellular/radio signals from the source;

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13 using the transceiver on the second mobile object to receive the signal directly from
14 the source and to transmit the signal to the transceiver of the first mobile object.

1 17. A program storage device according to Claim 16, wherein the network further
2 comprises a plurality of sensors, and each of the mobile objects is provided with one
3 of the sensors to determine when the transceivers of others of the mobile objects are
4 not able to receive the cellular/radio signals directly from the source; and wherein
5 when the sensor of one of the mobile objects determines that the transceiver of another
6 of the mobile objects is not able to receive the signals directly from the source, the
7 sensor of said one of the mobile objects activates the transceiver of said one of the
8 mobile objects to transmit the signal to the transceiver of the other of the mobile
9 object.

1 18. A program storage device according to Claim 16, wherein the mobile objects are
2 cars or people.

1 19. A program storage device according to Claim 16, wherein the location where the
2 transceiver on the first mobile object does not have access to the signal directly from
3 the source is one or more of the following: in a tunnel, under a bridge, or in a subway.

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